

## (11)Publication number : 06-275275

(51)Int.Cl. H01M 4/58 H01M 4/02 H01M 10/40

(22)Date of filing : 17403.1993 (72)Inventor : MAYUMI UEHARA  
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[Claim(s)]

[Claim 2] The nonaqueous battery according to claim 1 whose y in the aforementioned empirical formula is 0.01-0.3.

[Detailed Description of the Invention]

[0006] [The purpose of this invention]

To offer the highly safety nonaqueous battery which seldom carries out unusual generation of heat even when cell temperature rises, since the reaction start temperature of a positive active material and the electrolytic solution is high.

[0015] (Example 1)

The flat type nonaqueous battery (this invention cell) was produced.

[0016] [Production of positive electrode]

LiOH, B<sub>2</sub>O<sub>3</sub>, Ni(OH)<sub>2</sub>, Co<sub>2</sub>(OH) are mixed at the rate of the atomic ratio 1.0 : 0.01 : 0.5 : 0.49. It was calcinated at 800 degree C for 20 hours, and is empirical-formula LiB<sub>0.01</sub>Ni<sub>0.5</sub>Co<sub>0.49</sub>O<sub>2</sub>.

[0017] Subsequently, this cathode powder, the acetylene black as an electric conductive agent, and the fluorine resin powder as a binder were mixed at 90 : 6 : 4. It was pressed at 2 t/cm<sup>2</sup>,

AM2

and was dried at 250 degree C. The disc-like positive electrode with a diameter of 20mm was produced. In addition, the stainless steel plate (SUS304) was used as positive-electrode current collection field.

[0023] (Example 2)

Empirical-formula  $\text{LiB}_{0.1}\text{Ni}_{0.5}\text{Co}_{0.4}\text{O}_2$

[0024] (Example 3)

Empirical-formula  $\text{LiB}_{0.20}\text{Ni}_{0.5}\text{Co}_{0.3}\text{O}_2$

[0025] (Example 4)

Empirical-formula  $\text{LiB}_{0.30}\text{Ni}_{0.5}\text{Co}_{0.2}$

[0026] (Example 5)

Empirical-formula  $\text{LiB}_{0.35}\text{Ni}_{0.5}\text{Co}_0$

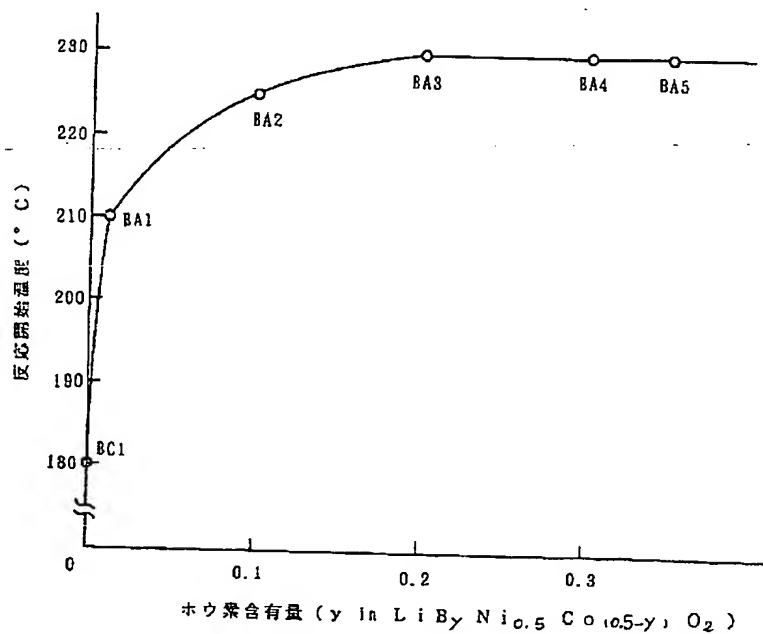
[0027] (Example of a comparison)

Empirical-formula  $\text{LiNi}_{0.5}\text{Co}_{0.5}\text{O}_2$

[Drawing 2]

[Drawing 3]

Onset temperature of exothermic reaction



# Discharge Capacity

